

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Asgrow Seed Company

**Whereas, THERE HAS BEEN PRESENTED TO THE
Secretary of Agriculture**

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *seventeen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (44 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

CAULIFLOWER

'Olympus'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 24th day of November in the year of our Lord one thousand nine hundred and seventy-five

Attest:

L. J. Gall
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

Earl L. Butz
Secretary of Agriculture



XP 67

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1. VARIETY NAME OR TEMPORARY DESIGNATION Olympus	2. KIND NAME Cauliflower	FOR OFFICIAL USE ONLY PV NUMBER 7400052	
3. GENUS AND SPECIES NAME Brassica oleracea var. botrytis	4. FAMILY NAME (Botanical) Cruciferae	FILING DATE 1.14.74	TIME 8:00 A.M.
	5. DATE OF DETERMINATION December 1969	FEE RECEIVED \$ 250	BALANCE DUE \$ —
		\$ 250	\$ —
		\$ 250	\$ —
6. NAME OF APPLICANT(S) Asgrow Seed Company	7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Kalamazoo, Michigan 49001		8. TELEPHONE AREA CODE AND NUMBER (616) 382-4000
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) Corporation	10. STATE OF INCORPORATION Delaware		11. DATE OF INCORPORATION March 22, 1968
12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers: Allen R. Trotter Asgrow Seed Company Kalamazoo, Michigan 49001			

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- ☒ 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
- ☒ 13B. Exhibit B, Botanical Description of the Variety
- ☒ 13C. Exhibit C, Objective Description of the Variety
- ☒ 13D. Exhibit D, Data Indicative of Novelty
- ☒ 13E. Exhibit E, Statement of the Basis of Applicant's Ownership

14A. Does the applicant(s) specify that seed of this variety be sold by variety name only as a class of certified seed? (See Section 83(a). (If "Yes," answer 14B and 14C below.) ☐ YES ☒ NO

14B. Does the applicant(s) specify that this variety be limited as to number of generations? ☐ YES ☒ NO

14C. If "Yes," to 14B, how many generations of production beyond breeder seed? ☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED

The applicant declares that a viable sample of basic seed of this variety will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable.

The undersigned applicant(s) of this sexually-reproduced novel plant variety believes that the variety is distinct, uniform, and stable as required in Section 41 and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant is informed that false representation herein can jeopardize protection and result in penalties.

January 11, 1974
(DATE)

Allen Trotter
(SIGNATURE OF APPLICANT)

1

(DATE)

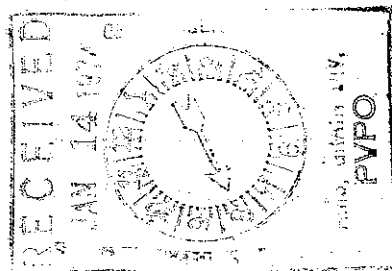
(SIGNATURE OF APPLICANT)

INSTRUCTIONS

GENERAL: Send an original copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, 6525 Belcrest Road, Hyattsville, Maryland 20782. (See Section 180.175 of the regulations and rules of practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- 5 Insert the date the applicant determined that he had a new variety based on the definition in Section 41 (a) of the Act and decision is made to increase the seed.
- 13a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.
- 13b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate the differences.
- 13c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.
- 13d Provide complete data indicative of novelty. Seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty may be submitted. Seeds submitted may be sterile.
- 13e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.



320
1-14-78 8:00
In 00023

EXHIBIT A

Origin and breeding history of the variety

Cauliflower: Olympus

1. Olympus originated from a single plant of the variety Snowball Y made in 1967. The original selection was open pollinated with a number of other selected plants from the same variety.
2. This single plant selection was evaluated along with the other selections mentioned above in a commercial field in the Watsonville area of California in 1967 and also on the breeding grounds the same year. The selection which has been named Olympus was one of the largest plant sized and best curd covering lines in these original evaluations.

Seed increases were made of Olympus in 1968, 1969 and 1973 and the experimental designation XP 67 was assigned.
3. Variants have not been observed.
4. Stability of the variety is indicated through the three increases mentioned above. No indications of genetic shift, change or breakdown have been observed in trial plantings of these increases.

EXHIBIT B

Botanical description of the variety

Cauliflower: Olympus

Olympus was developed in California and seems best adapted to the Pacific Coast area of the U.S. but has performed well in trials in Europe.

It was derived by selection from Snowball Y and belongs to the Snowball group or the Medium Late Alpha group. It seems best adapted for late summer and early fall harvest. In maturity it fits the Medium category, being about ten days later than the parental variety. Maturity is very uniform, and most closely resembles that of Snowball 421.

Plants are about 36 cms in height and is similar to Snowball Y. Leaves number about 34 and are about 69 cms long and 30 cms broad, with a length-width ratio of 2:1. Leaves are straight margined with thin veins and are sessile. Color is medium green and leaves are slightly longer and broader than Snowball Y leaves, affording better curd protection.

The curd averages 16 cms in diameter and 09 cms in depth, with a diameter/depth ratio of 1.5/1. The curd is tight, dome shaped, smooth and bright white in color. The curds are free from ricyness and bracts.

Olympus has no known resistance to diseases or insects.

FORM GR-470-30
(7-1-74)U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782
OBJECTIVE DESCRIPTION OF VARIETY
CAULIFLOWER
(*Brassica oleracea* var. *botrytis*)

NAME OF APPLICANT(S)	VARIETY NAME OR TEMPORARY DESIGNATION <u>Olympus</u>
ADDRESS (Street and No., or F.F.D. No., City, State, and ZIP Code)	FOR OFFICIAL USE ONLY
	PVPO NUMBER <u>7400052</u>

Place the appropriate number that describes the varietal character of this variety in the boxes below.

Place a zero in first box (e.g., 089 or 09) when number is either 99 or less or 9 or less.

1. REGION OF ADAPTATION: (Where best adapted in the U.S.A.)

<u>5</u>	1 = NORTHWEST	2 = NORTHCENTRAL	3 = NORTHEAST	4 = SOUTHEAST	5 = SOUTHWEST
	6 = MOST REGIONS				

2. SEASON: (Main crop)

<u>1</u>	1 = LATE FALL - EARLY WINTER	2 = LATE WINTER - EARLY SPRING
	3 = LATE SPRING - EARLY SUMMER	4 = LATE SUMMER - EARLY FALL

3. MATURITY: (Days to 50% harvest)

<u>080</u>	FROM TRANSPLANTS	<u>12</u>	NO. DAYS HARVESTING PERIOD
<u>124</u>	FROM DIRECT SEEDING		

4. PLANT HEIGHT: (At harvest)

<u>26</u>	CM. FROM SOIL LINE TO TOP OF CURD		
<u>07</u>	CM. TALLER THAN	<u>3</u>	1 = EARLY ERFURT 2 = SUPER SNOWBALL A
<u>05</u>	CM. SHORTER THAN	<u>5</u>	3 = SNOWBALL Y
			4 = VEITCH AUTUMN GIANT
			5 = OTHER (Specify) <u>FLORA BLANCA</u>

5. LEAVES:

<u>34</u>	TOTAL NUMBER	<u>69</u>	CM. AVERAGE LENGTH AT MID-POINT OF PLANT (Including Petiole)
		<u>30</u>	CM. AVERAGE WIDTH AT MID-POINT OF PLANT
<u>1</u>	1 = STRAIGHT MARGINS 2 = WAVY MARGINS	<u>1</u>	1 = THIN VEINS 2 = THICK VEINS
<u>1</u>	1 = MOSTLY SESSILE 2 = MOSTLY PETIOLATE		
	3 = EQUALLY SESSILE AND PETIOLATE		
<u>2</u>	COLOR: 1 = LIGHT GREEN 2 = MEDIUM GREEN (Snowball No. 10)	<u>3</u>	1 = UPRIGHT, EXPOSE CURD
	3 = DARK GREEN (Lecerf Group) 4 = BLUSH GREEN (November)		2 = INCURVED, PARTIALLY COVER CURD
			3 = COMPLETELY COVER CURD (Self blanching)

6. CURD:

<u>16</u>	CM. DIAMETER	<u>09</u>	CM. DEPTH
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6. CURD:

☒ 1 = TIGHT 2 = LOOSE

☒ 1 = SMOOTH 2 = KNOBBY

☒ COLOR: 1 = BRIGHT WHITE 2 = CREAMY, DULL WHITE
3 = PURPLE-GREEN

☒ 3 SHAPE: 1 = FLAT 2 = SEMI-DOME
3 = DOME

☒ 1 = NO LEAVES IN CURD 2 = LEAVES IN CURD

7. DISEASE RESISTANCE: (0 = Not Tested; 1 = Susceptible; 2 = Resistant. Specify race if known)

☐ BLACK SPOT

☐ PHYTOPHTHORA ROOT ROT

☐ BLACK ROT

☐ CERCOSPORELLA LEAF SPOT

☐ POWDERY MILDEW

☐ BLACK LEG

☐ RING SPOT

☐ YELLOWS

☐ OTHER (Specify) _____

☐ CLUBROOT

☐ WHITE BLISTER

☐ BOTTOM ROT

☐ DOWNY MILDEW

☐ VERTICILLUM WILT

☐ CAULIFLOWER MOSAIC

☐ TURNIP YELLOW MOSAIC

☐ WIRE STEM

8. OTHER RESISTANCE: (0 = Not Tested; 1 = Susceptible; 2 = Resistant)

☐ "BUTTONING"

☐ "RICEYNESS"

☐ INSECT (Specify) _____

☐ "BLINDNESS"

☐ "WHIPTAIL"

9. INDICATE A VARIETY THAT MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER	VARIETY	CHARACTER	VARIETY
MATURITY	Snowball D	PLANT COLOR	Snowball Y
ADAPTATION	Snowball Y	CURD SIZE	Snowball Y
PLANT HABIT	Snowball Y	CURD SHAPE	Snowball Y
PLANT SIZE	Snowball D	CURD COLOR	Snowball Y

REFERENCE:

Nieuwhof, M: 1969. Cole Crops — World Crop Series, Leonard Hill.

COMMENTS:

RECEIVED
OFFICIAL DESCRIPTION OF VARIETY
MAY 1970
U.S. DEPARTMENT OF AGRICULTURE
NATIONAL ARMY OF PLANTS

EXHIBIT D (Amended) Data Indicative of Novelty

Cauliflower, 'Olympus,' Application No. 7400052

'Olympus' most closely resembles 'Snowball Y,'
but matures about 10 days later.

EXHIBIT E

Ownership

Cauliflower: Olympus

This captioned variety was developed by Mr. Kenneth Bixby, an employee of Asgrow Seed Company. By agreement between employee and Asgrow Seed Company, all rights to any invention, discovery, or development made by the employee while employed by Asgrow Seed Company were assigned to Asgrow Seed Company, with no rights of any kind retained by employee.